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| **Nilim Prasad Sarma**  **B.E (Computer Science and Engineering)**  **Total Exp.: 4 Years**  **Relevant Exp.: 3.6 Years** |  |

**Summary**

* I Nilim Prasad Sarma, working in Test Yantra Software Solutions as a **Software Engineer**
* As a developer I’m involved in developing **Microservice** based applications hosted in **AWS** **cloud** for various clients of Test Yantra using Java, J2EE and Spring Boot.

**Technical Skills**

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| **Languages** | Java 1.7, SQL, HTML, XML (Basics), CSS with Bootstrap, JavaScript, TypeScript |
| **J2EE Technologies** | Servlet, JSP and JDBC |
| **Frameworks - Front End** | Angular 7 |
| **Frameworks- Back End** | Hibernate with JPA, Spring 5.0 (Core/IoC, MVC, DAO, REST, Boot), Project Lombok, Log4J |
| **Design Patterns** | Singleton, Model View Controller (MVC), Data Transfer Object (DTO), Data Access Object (DAO) and Factory Pattern |
| **RDBS Applications** | Oracle 10g and MySQL 5.5 |
| **Web Servers** | Apache Tomcat 8.0 |
| **AWS** | EC2, EBS, RDS |
| **Code Quality Tools** | SonarLint, Sonar Scanner, SonarQube & Crucible |
| **Version Control System** | Git with GitHub as well as BitBucket |
| **Build Automation Tool** | Maven |
| **CI/CD Tool** | Jenkins |
| **Other Tools** | Tortise Git, Eclipse, STS, Fiddler, SQL Plus, MySQL Workbench, and MS Office (Word, Excel & Power Point) |
| **Software Development Processes (SDLC)** | Waterfall Model and Agile |

**Achievements**

* Presented the Technical Paper in ABC Competition
* My Project which was on Java/J2EE scored 95 marks out of 100 in the final semester
* Presented a Seminar on “J2EE”
* I was part of Cultural Fest organized during 2012
* I was a college representative from 1998 to 2002

**Project Details**

1. **“StudentApp” Web Application Development**

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| Front End Technologies | HTML, CSS, Bootstrap |
| Back End Technologies | Core Java, J2EE (JDBC, Servlet and JSP), MySQL |
| Design Patterns used | MVC, DAO, DTO and Factory |
| RDBMS Application | MySQL |
| Tools Used | Eclipse, Fiddler |
| Duration | Jan 2016 to Apr 2016 |
| Team Size | 3 |

**Summary:**

We have developed this application as part of J2EE Course and it simulates the behaviour of any real time web applications by having various/common functionalities.

Below are the functionalities we have developed an in cooperated in **StudentApp** web application.

1. Login & Logout functionality using HttpSession
2. Change Password functionality
3. Locking the account if the user provide wrong password for repeated three times
4. Forgot Password functionality
5. Remember Username functionality using cookies
6. Create Profile functionality by storing data into multiple tables
7. Search functionality (with in the web application)
8. Advance Search functionality (Google/Bing/Yahoo Search) using Redirect
9. Pagination functionality

We have developed this web application using MVC, DTO, DAO and Factory design patterns. In this application we focused more about **backend code** rather than **front** **end code** and hence we developed simple UI’s using plain HTML and CSS.

**Responsibilities:**

As a **Developer,** I was involved in

* Designing the DB where we created below tables to store various users/students information’s
* Students\_info (to store student basic info)
* Guardin\_info (to store guardian info)
* Students\_otherinfo (to store password & user type info)
* Students\_address (to store students address info)
* Course\_details (to store course details info)
* Developed a “StudentsAppUtil”, a Java utility class, which get the common web application information like DB URL, DB user name and password, etc., from property file and pass it to other Java programs of web application
* Developing Java Beans to transfer the data between Model & Controller as well as between Controller & View
* Developed DAO classes using JDBC to interact with MySQL data base
* Developed Factory class to get an instance of DAO class
* Designing simple UI’s part by using HTML & CSS

1. **“Library Management” Web Application Development**